Page 1

## Declaration and Power of Attorney For Utility or Design Patent Application English Language Declaration

As a below named inventor	, I hereby declare that:		
My residence, post office a	ddress and citizenship are	as stated below next to my nam	e.
I believe I am the original, joint inventor (if plural names sought on the invention of	nes are listed below) of the	only one name is listed below) of subject matter which is claime	or an original, first and d and for which a patent
APPARATUS AND MET	HOD FOR AUTOMATED	HEADSPACE GAS ANALY	SIS
the specification of which i	s attached hereto unless th	e following box is checked:	•
was filed on	<u> </u>		
United States Application and was amended on	n Number		(if applicable) or,
PCT International Appli and was amended on	cation Number		(if applicable)
I hereby state that I have reincluding the claims, as am	eviewed and understand the nended by any amendment	e contents of the above identifier referred to above.	d specification,
I acknowledge the duty to of Federal Regulations, §1.	disclose information which 56.	is material to patentability as o	defined in Title 37, Code
identified below, by checking	ing the "No" box, any forei	nte, or §365(a) of any PCT inter Jnited States of America, listed ign application for patent or inverse before that of the application of	entor's certificate, or of
(Number)	(Country)	(Day/Month/Year Filed)	Yes No
(Number)	(Country)	(Day/Month/Year Filed)	Yes No
(Number)  Additional foreign app	(Country)	(Day/Month/Year Filed) on a supplemental priority shee	Yes No
I hereby claim the benefit tapplication(s) listed below		es Code §119(e) of any United	States provisional
(Number)	(Day/Month/Ye	ear Filed)	
(Number)	(Day/Month/Ye	ear Filed)	
(Number)	(Day/Month/Ye	ear Filed)	:
Additional provisional	application numbers are lis	sted on a supplemental priority	sheet attached hereto.

States States	as the subject matter of eac or PCT international applica Code §112, I acknowledge to I in Title 37, Code of Federa pplication and the national of	tion in the manner provided the duty to disclose informa at Regulations \$1.56 which	tion which i became ava	is material to patental iilable between the fi	bility as
·	(Application No.)	(Filing Date)		(Status) patented, pending, ab	eandoned)
	(Application No.)	(Filing Date)	•	(Status) patented, pending, ab	
	lditional U.S. or internationa eto.	al application numbers are l	isted on a su	applemental priority :	sheet attached
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
from c Patent attorno	ndersigned hereby authorized ther his foreign patent agent and Trademark Office regardly or agent and the undersignen, the U.S. attorney or agent	nt or corporate representative rding this application without the event of a change of the event of the	e, if any, as ut direct coi ge in the per	to any action to be to mmunication between rsons from whom ins	aken in the n the U.S.
POWER OF ATTORNEY: As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with the Customer Number provided below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:  CUSTOMER NUMBER 7055					
The ap	opointed attorneys include: Neil F. Greenblum Reg Bruce H. Bernstein Reg Arnold Turk Reg James L. Rowland Reg Robert W. Mueller Reg	g. No. 28,394 Stephen J. No. 29,027 Leslie J. J. No. 33,094 William	M. Roylance Paperner	Reg. No. 31,296 Reg. No. 33,329 Reg. No. 33,630 Reg. No. 41,568	
•	At:	Greenblum & Bernstein, P. 1950 Roland Clarke Place Reston, VA 20191	L.C.		
	Direct Telephone	Calls to: Greenblum & Be	rnstein, P.L.	.C. (703) 716-1191	· ·
	Full name of sole or first invento	or	, · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	James R. VEALE			•	<u>-                                    </u>
	Inventor's signature	d.		Date 10/14/03	
	Residence Charlottesville, VA				
	Citizenship			* * · · ·	
	Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, V	C VA 22901			
		nation and signature for sec	ond and sub	osequent joint invento	ors.)
1	me of second joint inventor, if any	,			

Second Inventor's signature	10/14/03
Residence Charlottesville, VA	. ,
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC -2030 Avon Ct. Charlottesville, VA 22901	
Full name of third joint inventor, if any Warren M. GRIFFITH	
Third Inventor's signature Wun 201 State	Date Oct 14, Zov 3
Residence Charlottesville, VA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fourth joint inventor, if any Glenn E. EDWARDS	
Fourth Inventor's signature	Date
Residence Palo Alto, CA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fifth joint inventor, if any George R. HOWARD	
Fifth Inventor's signature	Date
Residence Kennett Square, PA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of sixth joint inventor, if any	
Sixth Inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Page 1

## Declaration and Power of Attorney For Utility or Design Patent Application English Language Declaration

As a below named inventor, I hereby declare that:				
My residence, post office address and citizenship are as stated below next to my name.				
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled				
APPARATUS AND MET	HOD FOR AUTOMATE	ED HEADSPACE GAS ANALYSIS		
the specification of which is	s attached hereto unless t	he following box is checked:		
was filed on as				
	n Number		(if applicable) or,	
PCT International Appliand was amended on	cation Number		(if applicable)	
I hereby state that I have re the claims, as amended by	eviewed and understand that any amendment referred the	he contents of the above identified sp to above.	pecification, including	
I acknowledge the duty to of Federal Regulations, §1.	disclose information which 56.	ch is material to patentability as defin	ed in Title 37, Code	
foreign application(s) for p which designated at least o	atent or inventor's certificate ountry other than the	5, United States Code §119 (a-d) or cate, or §365(a) of any PCT internate United States of America, listed beloign application for patent or inventous before that of the application on w	ow. I have also or's certificate, or of	
			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes No	
(Number)	(Country)	(Day/Month/Year Filed)	Yes No	
(Number)	(Country)	(Day/Month/Year Filed)	Yes No	
Additional foreign application numbers are listed on a supplemental priority sheet attached hereto.  I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.				
(Number)	(Day/Month	/Year Filed)		
(Number)	(Day/Month	/Year Filed)		
(Number)	(Day/Month	·		
☐ Additional provisional	application numbers are	listed on a supplemental priority shee	et attached hereto.	

FAX NO. : 650 327 9009

P24039.DCI

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.				
(Application No.)	(Fili	ng Date)	(Status) (patented, pending, abandoned)	
(Application No.)	•	ng Date)	(Status) (patented, pending, abandoned)	
hereto.			upplemental priority sheet attached	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from either his foreign patent agent or corporate representative, if any, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.				
POWER OF ATTORNEY: As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with the Customer Number provided below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer				
Number: CUSTOMER NUMBER 7055				
The appointed attorneys inclunced in the Neil F. Greenblum Bruce H. Bernstein Arnold Turk James L. Rowland Robert W. Mueller	ide: Reg. No. 28,394 Reg. No. 29,027 Reg. No. 33,094 Reg. No. 32,674 Reg. No. 35,043	Stephen M. Roylance Leslie J. Paperner William Pieprz William E. Lyddane	Reg. No. 31,296 Reg. No. 33,329 Reg. No. 33,630 Reg. No. 41,568	
	At: Greenblum & 1950 Roland Reston, VA	Clarke Place		
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Full name of sole or first inventor	
James R. VEALE	
Inventor's signature	Date
Residence Charlottesville, VA	
Citizenship	
United States	
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(Supply similar information and signature	for second and subsequent joint inventors.)

P24039.DC1	
Full name of second joint inventor, if any	
William R. ANDERSON	
Second Inventor's signature	Date
Residence Charlottesville, VA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of third joint inventor, if any Warren M. GRIFFITH	
Third Inventor's signature	Date
Residence Charlottesville, VA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fourth joint inventor, if any Glenn 2: EDWARDS	
Fourth Inventor's signature	Date 10-13-03
Residence Palo Alto, CA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fifth joint inventor, if any George R. HOWARD	
Fifth Inventor's signature	Date
Residence Kemnett Square, PA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of sixth joint inventor, if any	
Sixth Inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

. Page 1

## Declaration and Power of Attorney For Utility or Design Patent Application English Language Declaration

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
APPARATUS AND METHOD FOR AUTOMATED HEADSPACE GAS ANALYSIS
the specification of which is attached hereto unless the following box is checked:
was filed onas
United States Application Number (if applicable) or,
PCT International Application Number and was amended on (if applicable)
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.
I hereby claim foreign priority benefits under Title 35. United States Code §119 (a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below. I have also identified below, by checking the "No" box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:  Priority Claimed
(Number) (Country) (Day/Month/Year Filed) Yes No
(Number) (Country) (Day/Month/Year Filed) Yes No
(Number) (Country) (Day/Month/Year Filed) Yes No  Additional foreign application numbers are listed on a supplemental priority sheet attached hereto.
I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.
(Number) (Day/Month/Year Filed)
(Number) (Day/Month/Year Filed)
(Number) (Day/Month/Year Filed)
Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.

Page 2

8365	(c) of any PCT international applicati	on designating the Unite	d States of America	listed below and
or PC §112, Code	ar as the subject matter of each of the T international application in the ma I acknowledge the duty to disclose in of Federal Regulations §1.56 which	claims of this application of the first claims of this matter of the first claims of this application of this application of this application of this application of this application of this application of t	on is not disclosed in st paragraph of Title : erial to patentability en the filing date of t	the prior United States 35, United States Code as defined in Title 37
and th	ne national or PCT international filing	g date of this application	•	
:	(Application No.)	(Filing Date)		tatus) ling, abandoned)
	(Application No.)	(Filing Date)	. (9	tatus)
_			(patented, pend	ling, abandoned)
he	dditional U.S. or international applic reto.	ation numbers are listed	on a supplemental p	riority sheet attached
know	by declare that all statements made he formation and belief are believed to be ledge that willful false statements and Section 1001 of Title 18 of the Unite rdize the validity of the application or	the true; and further that the the the tike so made are pured of the the the true that the true that the true the true the true the true the true the true true the true true the true true true true true true true tru	nese statements were unishable by fine or in such willful false stat	made with the
Paten attorn	ndersigned hereby authorizes the U.S either his foreign patent agent or corp t and Trademark Office regarding this ey or agent and the undersigned. In ten, the U.S. attorney or agent named	porate representative, if a s application without dir the event of a change in t	iny, as to any action tect communication be the persons from who	to be taken in the petween the U.S.
POW: with t	ER OF ATTORNEY: As a named inv he Customer Number provided below t and Trademark Office connected the mer Number:	ventor, I hereby appoint	the attorney(s) and/o	r agent(s) associated
	CU	STOMER NUMBER 7	055	
The a	ppointed attorneys include:  Neil F. Greenblum Reg. No. 28,7 Bruce H. Bernstein Reg. No. 29,0 Arnold Turk Reg. No. 33,0 James L. Rowland Reg. No. 32,6 Robert W. Mueller Reg. No. 35,0	394 Stephen M. Ro 327 Leslie J. Papen 374 William Pieprz 374 William E. Lyd	ylance Reg. No. 31,2 ner Reg. No. 33,3 Reg. No. 33,6	30
	At: Greenbly 1950 Ro Reston,	um & Bernstein, P.L.C. land Clarke Place VA 20191		
	Direct Telephone Calls to	: Greenblum & Bernstei	n, P.L.C. (703) 716-	1191
			, , , , , , , , , , , , , , , , , , , ,	
	Full name of sole or first inventor			, ,
	James R. VEALE			
	Inventor's signature		Date	
	Residence Charlottesville, VA			
ĺ	Citizenship			
	United States			
. !	Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901			

(Supply similar information and signature for second and subsequent joint inventors.)

Full name of second joint inventor, if any

William R. ANDERSON	
Second Inventor's signature	Date
Residence Charlottesville, VA	
Citizenship United States	
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Full name of third joint inventor, if any Warren M. GRIFFITH	
Third Inventor's signature	Date
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Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fourth joint inventor, if any Glenn E. EDWARDS	
Fourth Inventor's signature	Date
Residence Palo Alto, CA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of fifth joint inventor, if any George R. HOWARD	
Leigh & Friedlier	Date 10-14-2003
Residence / (/ Kennett Square, PA	
Citizenship United States	
Post Office Address c/o Lighthouse Instruments, LLC 2030 Avon Ct. Charlottesville, VA 22901	
Full name of sixth joint inventor, if any	
Sixth Inventor's signature	Date
Residence	
Citizenship	
Post Office Address	2